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10801

BEST AVAILABLE COPY PATENT COOPERATION TREATY

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Commissioner
US Department of Commerce
United States Patent and Trademark
Office, PCT
2011 South Clark Place Room
CP2/5C24
Arlington, VA 22202
ETATS-UNIS D'AMERIQUE
in its capacity as elected Office

Date of mailing (day/month/year) 15 May 2001 (15.05.01)	
International application No. PCT/AU00/01079	Applicant's or agent's file reference 2327000/GP
International filing date (day/month/year) 08 September 2000 (08.09.00)	Priority date (day/month/year) 08 September 1999 (08.09.99)
Applicant JOHNSON, Mark, Ian et al	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:
30 March 2001 (30.03.01)

☐ in a notice effecting later election filed with the International Bureau on:

2. The election ☒ was

☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Claudio Borton
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38

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10/070883
2327000/GP**PCT REQUEST**

Original (for SUBMISSION) - printed on 08.09.2000 10:56:12 AM

0	For receiving Office use only	
0-1	International Application No.	
0-2	International Filing Date	
0-3	Name of receiving Office and "PCT International Application"	
0-4	Form - PCT/RO/101 PCT Request Prepared using	PCT-EASY Version 2.91 (updated 01.07.2000)
0-5	Petition The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
0-6	Receiving Office (specified by the applicant)	Australian Patent Office (RO/AU)
0-7	Applicant's or agent's file reference	2327000/GP
I	Title of invention	TAP
II	Applicant	
II-1	This person is:	applicant only
II-2	Applicant for	all designated States except US
II-4	Name	AUSTRALIAN DYNAMIC PRODUCTS PTY. LTD.
II-5	Address:	- 3 Expo Court Mt. Waverley, Victoria 3149 Australia
II-6	State of nationality	AU
II-7	State of residence	AU
II-8	Telephone No.	03 9543 2211
II-9	Facsimile No.	03 9545 5442
II-10	e-mail	-
III-1	Applicant and/or inventor	
III-1-1	This person is:	applicant and inventor
III-1-2	Applicant for	US only
III-1-4	Name (LAST, First)	JOHNSON, Mark, Ian
III-1-5	Address:	- 17 Wangaratta Street Richmond, Victoria 3121 Australia
III-1-6	State of nationality	AU
III-1-7	State of residence	AU

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PCT REQUEST

2327000/GP

Original (for SUBMISSION) - printed on 08.09.2000 10:56:12 AM

III-2	Applicant and/or inventor	
III-2-1	This person is:	applicant and inventor
III-2-2	Applicant for	US only
III-2-4	Name (LAST, First)	BLOCHLINGER, Alfred
III-2-5	Address:	- 17 Wangaratta Street Richmond, Victoria 3121 Australia
III-2-6	State of nationality	AU
III-2-7	State of residence	AU
III-3	Applicant and/or inventor	
III-3-1	This person is:	applicant and inventor
III-3-2	Applicant for	US only
III-3-4	Name (LAST, First)	HAMANN, Brian, Charles
III-3-5	Address:	- 12 Amanda Avenue Corio, Victoria 3214 Australia
III-3-6	State of nationality	AU
III-3-7	State of residence	AU
III-4	Applicant and/or inventor	
III-4-1	This person is:	applicant and inventor
III-4-2	Applicant for	US only
III-4-4	Name (LAST, First)	FUNG, Hugh, Yean
III-4-5	Address:	- 7 Correa Close Wantirna South, Victoria 3152 Australia
III-4-6	State of nationality	AU
III-4-7	State of residence	AU
IV-1	Agent or common representative; or address for correspondence	
	The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:	agent
IV-1-1	Name (LAST, First)	PRYOR, Geoffrey, Charles
IV-1-2	Address:	DAVIES COLLISON CAVE 1 Little Collins Street Melbourne, Victoria 3000 Australia
IV-1-3	Telephone No.	03 9254 2777
IV-1-4	Facsimile No.	03 9254 2770
IV-1-5	e-mail	mail@davies.com.au
IV-2	Additional agent(s)	
		additional agent(s) with same address as first named agent
IV-2-1	Name(s)	LESLIE, Keith; WEBBER, David, Brian

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PCT REQUEST

2327000/GP

Original (for SUBMISSION) - printed on 08.09.2000 10:56:12 AM


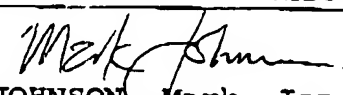



V	Designation of States	
V-1	Regional Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)	<p>AP: GH GM KE LS MW MZ SD SL SZ TZ UG ZW and any other State which is a Contracting State of the Harare Protocol and of the PCT</p> <p>EA: AM AZ BY KG KZ MD RU TJ TM and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT</p> <p>EP: AT BE CH&LI CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE and any other State which is a Contracting State of the European Patent Convention and of the PCT</p> <p>OA: BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG and any other State which is a member State of OAPI and a Contracting State of the PCT</p>
V-2	National Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)	<p>AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH&LI CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW</p>
V-5	Precautionary Designation Statement In addition to the designations made under items V-1, V-2 and V-3, the applicant also makes under Rule 4.9(b) all designations which would be permitted under the PCT except any designation(s) of the State(s) indicated under item V-6 below. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit.	
V-6	Exclusion(s) from precautionary designations	NONE
VI-1	Priority claim of earlier national application	
VI-1-1	Filing date	09 September 1999 (08.09.1999)
VI-1-2	Number	PQ2703
VI-1-3	Country	AU
VI-2	Priority document request The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s):	VI-1

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PCT REQUEST

2327000/GP

Original (for SUBMISSION) - printed on 08.09.2000 10:56:12 AM

VII-1	International Searching Authority Chosen	Australian Patent Office (ISA/AU)	
VIII	Check list	number of sheets	electronic file(s) attached
VIII-1	Request	5	-
VIII-2	Description	15	-
VIII-3	Claims	5	-
VIII-4	Abstract	1	2327000.txt
VIII-5	Drawings	24	-
VIII-7	TOTAL	50	
VIII-8	Accompanying items	paper document(s) attached	electronic file(s) attached
VIII-8	Fee calculation sheet	✓	-
VIII-16	PCT-EASY diskette	-	diskette
VIII-18	Figure of the drawings which should accompany the abstract	2	
VIII-19	Language of filing of the international application	English	
IX-1	Signature of applicant or agent		
IX-1-1	Name	AUSTRALIAN DYNAMIC PRODUCTS PTY. LTD.	
IX-2	Signature of applicant or agent		
IX-2-1	Name (LAST, First)	JOHNSON, Mark, Ian	
IX-3	Signature of applicant or agent		
IX-3-1	Name (LAST, First)	BLOCHLINGER, Alfred	
IX-4	Signature of applicant or agent		
IX-4-1	Name (LAST, First)	HAMANN, Brian, Charles	
IX-5	Signature of applicant or agent		
IX-5-1	Name (LAST, First)	FUNG, Hugh, Yean	

FOR RECEIVING OFFICE USE ONLY

10-1	Date of actual receipt of the purported international application	
10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/AU

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PCT REQUEST

2327000/GP

Original (for SUBMISSION) - printed on 08.09.2000 10:56:12 AM

10-6	Transmittal of search copy delayed until search fee is paid	
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FOR INTERNATIONAL BUREAU USE ONLY

11-1	Date of receipt of the record copy by the International Bureau	
------	---	--

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: S
DAVIES COLLISON CAVE
1 Little Collins Street
MELBOURNE VIC 3000

PCT
NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT
OR THE DECLARATION

(PCT Rule 44.1)

Date of mailing **1 - DEC 2000**
(day/month/year)

Applicant's or agent's file reference
2327000

FOR FURTHER ACTION See paragraphs 1 and 4 below

International application No.
PCT/AU00/01079

International filing date
8 September 2000

Applicant
AUSTRALIAN DYNAMIC PRODUCTS PTY. LTD. et al

1. ☒ The applicant is hereby notified that the international search report has been established and is transmitted herewith

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the international search report; however, for more details, see the notes on the accompanying sheet.

Where? Directly to the International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland
Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.

3. ☐ With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Further action(s):** The applicant is reminded of the following:

Shortly after 18 months from the priority date, the international application will be published by the International Bureau.

If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later)

Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the ISA/AU
AUSTRALIAN PATENT OFFICE
PO BOX 200, WODEN ACT 2606, AUSTRALIA
E-mail address: pct@ipaustalia.gov.au
Facsimile No. (02) 6285 3929

Authorized officer
CRAIG GLEGHORN
Telephone No. (02) 6283 2064

PATENT COOPERATION TREATY
PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 2327000	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/AU00/01079	International filing date (day/month/year) 8 September 2000	(Earliest) Priority Date (day/month/year) 8 September 1999
Applicant AUSTRALIAN DYNAMIC PRODUCTS PTY. LTD. et al		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☒ Unity of invention is lacking (See Box II).

4. With regard to the title, ☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract, ☒ the text is approved as submitted by the applicant

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No. 2

☒ as suggested by the applicant.

☐ None of the figures

☐ because the applicant failed to suggest a figure

☐ because this figure better characterizes the invention

INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU00/01079

Box I Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

☐

Claims Nos :

because they relate to subject matter not required to be searched by this Authority, namely:

2.

☐

Claims Nos :

because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3.

☐

Claims Nos :

because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)

Box II Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. Claims 1-22 directed to a tap including a valve which can only be opened after activation of a security button.
2. Claim 23 directed to a dual valve having a pair of valve elements which are mounted for rotation relative to one another.
3. Claim 24 directed to a tap including a plunger which rotates with a handle about an axis but is unseated from a valve seat when the handle is rotated about an orthogonal axis.

1.

☒

As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims

2.

☐

As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3.

☐

As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4.

☐

No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

☐

The additional search fees were accompanied by the applicant's protest.

☒

No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU00/01079

A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. ⁷: F16K 35/02, 35/10, 11/18, 3/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

F16K 35/02, 35/10, 11/18, 3/04

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPAT: 1. (F16K 35/02 or 35/10 or 11/18) and (button or safety or child+) 2. (F16K 3/04 or 3/26) 3. (F16K 11/18)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 933573 A (GROHE) 4 August 1999 Entire document	1-22
X	DE 4432873 A (KSB AG) 21 March 1996 Entire document	1-22
X	US 5762317 A (FRAHM ET AL) 9 June 1998 Entire document	1-22

☒ Further documents are listed in the continuation of Box C ☐ See patent family annex

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 24 November 2000	Date of mailing of the international search report 1 - DEC 2000 1 - DEC 2000
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaaustralia.gov.au Facsimile No. (02) 6285 3929	Authorized officer CRAIG GLEGHORN Telephone No : (02) 6283 2064

INTERNATIONAL SEARCH REPORT

International application No.
PCT/AU00/01079

(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5108075 A (DOWNWARD ET AL) 28 April 1992 ✓ Entire document	23
X	US 5181580 A (BURG) 26 January 1993 ✓ Figures 12-16	23
X	US 4960154 A (DAGLANTIS) 2 October 1990 ✓ Entire document	23
X	US 4709728 A (YING-CIUNG) 1 December 1987 ✓ Entire document	24
X	US 3938556 A (HICKS) 17 February 1976 ✓ Entire document	24
X	US 4457452 A (SYMMONS) 3 July 1984 ✓ Entire document	24

INTERNATIONAL SEARCH REPORT
Information on patent family membersInternational application No.
PCT/AU00/01079

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Patent Family Member			
EP	933573	DE	19803524	JP	11269948	US	6035463
DE	4432873	ES	2126455	FR	2724740	IT	MI
			951750				
US	5762317	NONE					
US	5108075	DE	4213619	GB	2255155		
US	5181580	US	5273127				
US	4960154	EP	309443	CA	1293907	FI	892471
US	4709728	NONE					
US	3938556	NONE					
US	4457452	NONE					
END OF ANNEX							

PATENT COOPERATION TREATY

From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

PCT

finney

To: Agent :

DAVIES COLLISON CAVE
1 Little Collins Street
MELBOURNE VIC 3000NOTIFICATION OF RECEIPT
OF DEMAND BY COMPETENT INTERNATIONAL
PRELIMINARY EXAMINING AUTHORITY(PCT Rule 59.3(e) and 61.1(b), first sentence
and Administrative Instructions, Section 601(a))Date of mailing 5 APR 2001
(day/month/year) (5/4/01)Applicant's or agent's file reference
2327000

IMPORTANT NOTIFICATION

International application No.
PCT/AU00/01079International filing date (day/month/year)
8 SEP 2000 (8/9/00)Priority date (day/month/year)
8 SEP 1999 (8/9/99)

Applicant

Australian Dynamic Products Pty. Ltd. (et al.)

1. The applicant is hereby **notified** that this International Preliminary Examining Authority considers the following date as the date of receipt of the demand for international preliminary examination of the international application:

30 MAR 2001 (30/3/01)

2. That date of receipt is:



the actual date of receipt of the demand by this Authority (Rule 61.1(b)).



the actual date of receipt of the demand on behalf of this Authority (Rule 59.3(e)).



the date on which this Authority has, in response to the Invitation to correct defects in the demand (Form PCT/IPEA/404), received the required corrections.

3. ☐ **Attention:** That date of receipt is **AFTER** the expiration of 19 months from the priority date. Consequently, the elections(s) made in the demand does (do) not have the effect of postponing the entry into the national phase until 30 months from the priority date (or later in some Offices) (Article 39(1)). Therefore, the acts for entry into the national phase must be performed within 20 months from the priority date (or later in some Offices) (Article 22). For details, see the *PCT Applicant's Guide, Volume II*.



(If applicable) This notification confirms the information given by telephone, facsimile transmission or in person on:

4. Only where paragraph 3 applies, a copy of this notification has been sent to the International Bureau.

Name and mailing address of the IPEA/AU
AUSTRALIAN PATENT OFFICE
PO BOX 200, WODEN ACT 2606, AUSTRALIA
E-mail: pct@ipaaustralia.gov.au
Facsimile No. 02 6285 3929

Authorized officer

JOSEPH BRESIC

Telephone No. 02 6282 2257

The demand must be filed directly with the competent International Preliminary Examining Authority or, if two or more, Authorities are competent with the one chosen by the applicant. The full name or two-letter code of that Authority may be indicated by the applicant on the line below.

IPEA/ _____

PCT**CHAPTER II****DEMAND**

Under Article 31 of the Patent Cooperation Treaty:
The Undersigned requests that the international application specified below be the subject of international preliminary examination according to the Patent Cooperation Treaty and hereby elects all eligible States (except where otherwise indicated).

For International Preliminary Examining Authority use only

Identification of IPEA		Date of receipt of DEMAND
Box No. I IDENTIFICATION OF THE INTERNATIONAL APPLICATION		Applicant's or agent's file reference 2327000/GP
International application No. PCT/AU00/01079	International filing date (day/month/year) 8 September, 2000 (8/9/00)	(Earliest) Priority date (day/month/year) 8 September, 1999 (8/9/99)
Title of invention TAP		
Box No. II APPLICANT(S)		
Name and address: (Family name followed by given name: for a legal entity, full official designation. The address must include postal code and name of country.) AUSTRALIAN DYNAMIC PRODUCTS PTY. LTD., 3 Expo Court, Mt. Waverley 3149 Victoria, Australia		Telephone No.: Facsimile No.: Teleprinter No.:
State (that is, country) of nationality: AUSTRALIA		State (that is, country) of residence: AUSTRALIA
Name and address: (Family name followed by given name: for a legal entity, full official designation. The address must include postal code and name of country.) JOHNSON, Mark, Ian 17 Wangaratta Street, Richmond 3121 Victoria, Australia		
State (that is, country) of nationality: AUSTRALIA		State (that is, country) of residence: AUSTRALIA
Name and address: (Family name followed by given name: for a legal entity, full official designation. The address must include postal code and name of country.) BLOCHLINGER, Alfred 17 Wangaratta Street, Richmond 3121 Victoria, Australia		
State (that is, country) of nationality: AUSTRALIA		State (that is, country) of residence: AUSTRALIA
<input checked="" type="checkbox"/> Further applicants are indicated on a continuation sheet.		

Sheet No. 2/4

International application no.
PCT/AU00/01079

Continuation of Box No. II APPLICANT(S)

*If none of the following sub-boxes is used, this sheet should not be included in the demand.*Name and address: *(Family name followed by given name: for a legal entity, full official designation. The address must include postal code and name of country.)*

HAMANN, Brian, Charles
12 Amanda Avenue,
Corio 3214
Victoria, Australia

State *(that is, country)* of nationality:
AUSTRALIAState *(that is, country)* of residence:
AUSTRALIAName and address: *(Family name followed by given name: for a legal entity, full official designation. The address must include postal code and name of country.)*

FUNG, Hugh, Yean
7 Correa Close,
Wantima South 3152
Victoria, Australia

State *(that is, country)* of nationality:
AUSTRALIAState *(that is, country)* of residence:
AUSTRALIAName and address: *(Family name followed by given name: for a legal entity, full official designation. The address must include postal code and name of country.)*State *(that is, country)* of nationality:State *(that is, country)* of residence:Name and address: *(Family name followed by given name: for a legal entity, full official designation. The address must include postal code and name of country.)*State *(that is, country)* of nationality:State *(that is, country)* of residence:

Further applicants are indicated on another continuation sheet.

Sheet No. 3/4

International application no.
PCT/AU00/01079**Box No. III AGENT OR COMMON REPRESENTATIVE: OR ADDRESS FOR CORRESPONDENCE**

The following person is ☒ agent ☐ common representative
 and ☒ has been appointed earlier and represents the applicant(s) also for international preliminary examination.
☐ is hereby appointed and any earlier appointment of (an) agent(s)/common representative is hereby revoked.
☐ is hereby appointed, specifically for the procedure before the International Preliminary Examining Authority, in addition to the agent(s)/common representative appointed earlier.

Name and address: (Family name followed by given name; for a legal entity, full official designation.
 The address must include postal code and name of country.)

Telephone No.:
+61 3 9254 2777

PRYOR, Geoffrey Charles DAVIES COLLISON CAVE
 LESLIE, Keith 1 Little Collins Street
 WEBBER, David Brian Melbourne
 Victoria 3000
 Australia

Facsimile No.:
+61 3 9254 2770

Electronic Mail:
mail@davies.com.au

☐ Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

Box No. IV BASIS FOR INTERNATIONAL PRELIMINARY EXAMINATION**Statement concerning amendments:***

1. The applicant wishes the international preliminary examination to start on the basis of:

- ☒ the international application as originally filed
- the description ☐ as originally filed
 ☐ as amended under Article 34
- the claims ☐ as originally filed
 ☐ as amended under Article 19 (together with any accompanying statement)
 ☐ as amended under Article 34
- the drawings ☐ as originally filed
 ☐ as amended under Article 34

2. ☐ The applicant wishes any amendment to the claims under Article 19 to be considered as reversed.

3. ☐ The applicant wishes the start of the international preliminary examination to be postponed until the expiration of 20 months from the priority date unless the International Preliminary Examining Authority receives a copy of any amendments made under Article 19 or a notice from the applicant that he does not wish to make such amendments (Rule 69. 1(d)). *This check-box may be marked only where the time limit under Article 19 has not yet expired.*

- Where no check-box is marked, international preliminary examination will start on the basis of the international application as originally filed or, where a copy of amendments to the claims under Article 19 and/or amendments of the international application under Article 34 are received by the International Preliminary Examining Authority before it has begun to draw up a written opinion or the international preliminary examination report, as so amended.

Language for the purposes of international preliminary examination: ENGLISH

- ☒ which is the language in which the international application was filed.
☐ which is the language of a translation furnished for the purposes of international search.
☐ which is the language of publication of the international application.
☐ which is the language of the translation (to be) furnished for the purposes of international preliminary examination.

Box No. V ELECTION OF STATES

The applicant hereby elects all eligible States (*that is, all States which have been designated and which are bound by Chapter II of the PCT*)

Excluding the following States which the applicant wishes not to elect:

Sheet No. 4/4

International application no.
PCT/AU00/01079**Box No. VI CHECK LIST**

The demand is accompanied by the following elements, in the language referred to in Box No. IV, for the purposes of international preliminary examination:

For International Preliminary
Examining Authority use only


		received	not received
1.	translation of international application : sheets	<input type="checkbox"/>	<input type="checkbox"/>
2.	amendments under Article 34 : sheets	<input type="checkbox"/>	<input type="checkbox"/>
3.	copy (or, where required, translation) of amendments under Article 19 : sheets	<input type="checkbox"/>	<input type="checkbox"/>
4.	copy (or, where required, translation) of statement under Article 19 : sheets	<input type="checkbox"/>	<input type="checkbox"/>
5.	letter : sheets	<input type="checkbox"/>	<input type="checkbox"/>
6.	other (specify) : sheets	<input type="checkbox"/>	<input type="checkbox"/>

The demand is also accompanied by the item(s) marked below:

- | | |
|--|---|
| 1. <input type="checkbox"/> fee calculation sheet | 4. <input type="checkbox"/> statement explaining lack of signature |
| 2. <input type="checkbox"/> separate signed power of attorney | 5. <input type="checkbox"/> nucleotide and or amino acid sequence listing in computer readable form |
| 3. <input type="checkbox"/> copy of general power of attorney: reference number, if any: | 6. <input type="checkbox"/> other (specify): |

Box No. VII SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the demand).


 PRYOR, Geoffrey Charles
 For and on behalf of the applicants
For International Preliminary Examining Authority use only

1. Date of actual receipt of DEMAND:

2. Adjusted date of receipt of demand due to CORRECTIONS under Rule 60.1(b):

3. ☐ The date of receipt of the demand is AFTER the expiration of 19 months from the priority date and item 4 or 5, below, does not apply.☐ The applicant has been informed accordingly.4. ☐ The date of receipt of the demand is WITHIN the period of 19 months from the priority dated as extended by virtue of Rule 80.5.5. ☐ Although the date of receipt of the demand is after the expiration of 19 months from the priority dated, the delay in arrival is EXCUSED pursuant to Rule 82.**For International Bureau use only**

Demand received from IPEA on:

WO 01/18439
PCT/AU00/01079

PATENT COOPERATION TREATY

PCT/CA, 17 MAR 2001

From the INTERNATIONAL BUREAU

PCT

NOTICE INFORMING THE APPLICANT OF THE
COMMUNICATION OF THE INTERNATIONAL
APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

T :

PRYOR, Geoffrey, Charles
Davies Collison Cave
1 Little Collins Street
Melbourne, VIC 3000
AUSTRALIE

Date of mailing (day/month/year) 15 March 2001 (15.03.01)		
Applicant's or agent's file reference 2327000/GP		IMPORTANT NOTICE
International application No. PCT/AU00/01079	International filing date (day/month/year) 08 September 2000 (08.09.00)	Priority date (day/month/year) 08 September 1999 (08.09.99)
Applicant AUSTRALIAN DYNAMIC PRODUCTS PTY. LTD. et al		

1. Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this Notice:
AU, KP, KR, US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present Notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:
AE, AG, AL, AM, AP, AT, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EA, EE, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OA, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU.
The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).
3. Enclosed with this Notice is a copy of the international application as published by the International Bureau on 15 March 2001 (15.03.01) under No. WO 01/18439

REMINDER REGARDING CHAPTER II (Article 31(2)(a) and Rule 54.2)

If the applicant wishes to postpone entry into the national phase until 30 months (or later in some Offices) from the priority date, a demand for international preliminary examination must be filed with the competent International Preliminary Examining Authority before the expiration of 19 months from the priority date.

It is the applicant's sole responsibility to monitor the 19-month time limit.

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

REMINDER REGARDING ENTRY INTO THE NATIONAL PHASE (Article 22 or 39(1))

If the applicant wishes to proceed with the international application in the national phase, he must, within 20 months or 30 months, or later in some Offices, perform the acts referred to therein before each designated or elected Office.

For further important information on the time limits and acts to be performed for entering the national phase, see the Annex to Form PCT/IB/301 (Notification of Receipt of Record Copy) and Volume II of the PCT Applicant's Guide.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer J. Zahra
Facsimile No. (41-22) 740.1435	Telephone No. (41-22) 338.83.38

PATENT COOPERATION TREATY

FRIDAY 24 AUG 2001

From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

PCT

NOTIFICATION OF TRANSMITTAL OF
INTERNATIONAL PRELIMINARY EXAMINATION
REPORT

(PCT Rule 71.1)

To: DAVIES COLLISON CAVE 1 Little Collins Street MELBOURNE VIC 3000		Date of mailing day/month/year 23 AUG 2001	
Applicant's or agent's file reference 2327000		IMPORTANT NOTIFICATION	
International Application No. PCT/AU00/01079	International Filing Date 8 September 2000	Priority Date 8 September 1999	
Applicant AUSTRALIAN DYNAMIC PRODUCTS PTY. LTD. et al			

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translations to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide

Name and mailing address of the IPEA/AU
AUSTRALIAN PATENT OFFICE
PO BOX 200, WODEN ACT 2606, AUSTRALIA
e-mail address: pct@ipaustralia.gov.au
Facsimile No. (02) 6285 3929

Authorized officer

VENKAT IYER

Telephone No. (02) 6283 2144

PATENT COOPERATION TREATY
PCT
INTERNATIONAL PRELIMINARY EXAMINATION REPORT
(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2327000	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416).
International Application No. PCT/AU00/01079	International Filing Date (day/month/year) 8 September 2000	Priority Date (day/month/year) 8 September 1999
International Patent Classification (IPC) or national classification and IPC Int. Cl. ⁷ F16K 35/02, 35/10, 11/18, 3/04		
Applicant AUSTRALIAN DYNAMIC PRODUCTS PTY. LTD. et al		

1	This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2	This REPORT consists of a total of 5 sheets, including this cover sheet. <input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of sheet(s).
3. This report contains indications relating to the following items:	
I	<input checked="" type="checkbox"/> Basis of the report
II	<input type="checkbox"/> Priority
III	<input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
IV	<input checked="" type="checkbox"/> Lack of unity of invention
V	<input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
VI	<input type="checkbox"/> Certain documents cited
VII	<input type="checkbox"/> Certain defects in the international application
VIII	<input type="checkbox"/> Certain observations on the international application

Date of submission of the demand 30 March 2001	Date of completion of the report 20 August 2001
Name and mailing address of the IPEA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustalia.gov.au Facsimile No. (02) 6285 3929	Authorized Officer VENKAT IYER Telephone No. (02) 6283 2144

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/AU00/01079

I. Basis of the report

1. With regard to the elements of the international application:*

- ☒ the international application as originally filed.
- ☐ the description, pages , as originally filed,
 pages , filed with the demand,
 pages , received on with the letter of
- ☐ the claims, pages , as originally filed,
 pages , as amended (together with any statement) under Article 19,
 pages , filed with the demand,
 pages , received on with the letter of
- ☐ the drawings, pages , as originally filed,
 pages , filed with the demand,
 pages , received on with the letter of
- ☐ the sequence listing part of the description:
 pages , as originally filed
 pages , filed with the demand
 pages , received on with the letter of

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages
- ☐ the claims, Nos.
- ☐ the drawings, sheets/fig.

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/AU00/01079

IV. Lack of unity of invention

1 In response to the invitation to restrict or pay additional fees the applicant has:

- ☐ restricted the claims.
- ☐ paid additional fees.
- ☐ paid additional fees under protest.
- ☐ neither restricted nor paid additional fees.

2 ☒ This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.

3 This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is

- ☐ complied with.
- ☒ not complied with for the following reasons:

1. Claims 1 - 22 are directed to a tap including a valve which can be opened only after activating a security button.
2. Claim 23 is directed to a dual valve having a pair of valve elements which are mounted for rotation relative to one another.
3. Claim 24 directed to a tap including a plunger which rotates with a handle about an axis but is unseated from a valve seat when the handle is rotated about an orthogonal axis.

4 Consequently, the following parts of the international application were the subject of international preliminary examination in establishing this report:

- ☒ all parts.
- ☐ the parts relating to claims Nos.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/AU00/01079

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Statement

Novelty (N)	Claims 3 - 22	YES
	Claims 1, 2, 23, 24	NO
Inventive step (IS)	Claims 3 - 22	YES
	Claims 1, 2, 23, 24	NO
Industrial applicability (IA)	Claims 1 - 24	YES
	Claims	NO

Citations and explanations (Rule 70.7)

The following documents are considered to be particularly relevant for the purposes of this international preliminary examination report:

D1 EP 933573	D4 US 4960154	D7 US 3938556
D2 US 5762317	D5 US 5108075	D8 US 4709728
D3 DE 4432873	D6 US 5181580	D9 US 4457452

NOVELTY(N)

Claims 1 and 2:

D1 discloses a tap including an operating handle 21 and a security button 5 which must be pushed down before the user can move the handle to open the valve and feed water to the sprayer output 104. The handle 21 is capable of biaxial rotation and is also provided with a part spherical bearing surface arm 31 with a complementary bearing surface on the body of the tap 12. See figures 10 and 11.

D2 discloses a tap including a security button 16, which must be moved in order to allow the actuator cap 14 to actuate the valve 12.

Similarly D3 discloses a tap with a button/lever 4 which must be raised to allow the arm 2 to actuate the valve.

Claim 23:

D5 discloses a valve having a pair of valve elements 50 and 52 mounted for rotation relative to one another. The first valve member 50 has a through inlet and outlet 80, the other valve element 52 includes a recess 68, the arrangement being such that when the valve element 52 is rotated the recess allows fluid flow.

Similarly for D6 (see figures 12 - 16)

Claim 24:

D8 discloses a tap having a handle 24 with a plunger 23. The handle can be pressed down such that the plunger 23 together with a valve 232 is lowered. Resulting in the opening of the valve port 223. Furthermore, the handle is mounted for biaxial rotation. See figures 6, 7 and column 6 lines 31 - 38 and column 7 lines 3 - 15.

Similarly for D7 (col 3 lines 4 -13) and D9 (col 8 lines 11 - 20)

(continued in supplemental sheet)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/AU00/01079

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of Box V**INVENTIVE STEP(IS)**Claims 1, 2, 23, 24 : as above, also

D4 discloses a dual valve comprising a pair of valve elements 3 and 4 which slide relative to each other. The first valve member 3 includes an inlet 8, 9 and an outlet 13. The second valve member 4 has a recess 12 which is able to overlies both ports to allow fluid flow. See figure 4. The only difference between the invention and D4 is that the valve elements rotate relative to one another as opposed to sliding relative to one another in the citation. This difference amounts to a mere workshop variation, consequently claim 23 lacks an inventive step.

Claims 3 - 22:

These claims are considered to be novel and to involve an inventive step as the specific arrangement of the tap with the fluid lines is neither suggested nor disclosed in the prior art.

INDUSTRIAL APPLICABILITY(IA)

Claims 1 - 24 are industrially applicable

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
15 March 2001 (15.03.2001)

PCT

(10) International Publication Number
WO 01/18439 A1(51) International Patent Classification: **F16K 35/02,**
35/10, 11/18, 3/04(21) International Application Number: **PCT/AU00/01079**(22) International Filing Date:
8 September 2000 (08.09.2000)

(25) Filing Language: English

(26) Publication Language: English

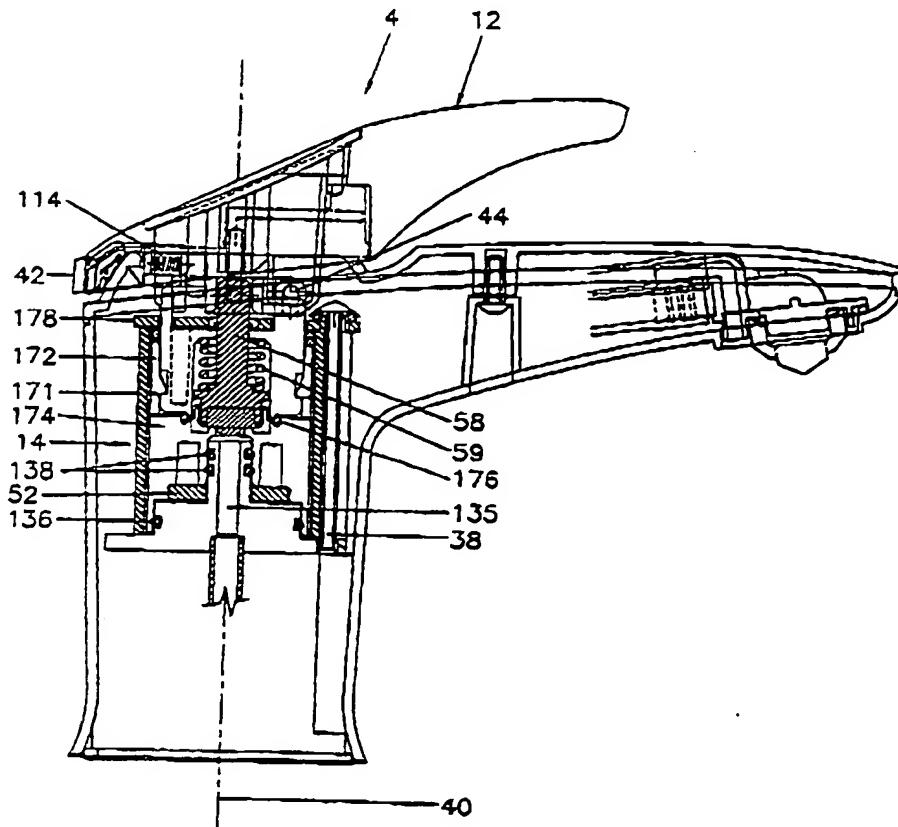
(30) Priority Data:
PQ 2703 8 September 1999 (08.09.1999) AU(71) Applicant (for all designated States except US): **AUS-
TRALIAN DYNAMIC PRODUCTS PTY. LTD.**
[AU/AU]; 3 Expo Court, Mt. Waverley, VIC 3149 (AU).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **JOHNSON, Mark,**
Jan [AU/AU]; 17 Wangaratta Street, Richmond, VIC 3121
(AU). **BLOCHLINGER, Alfred** [AU/AU]; 17 Wangaratta
Street, Richmond, VIC 3121 (AU). **HAMANN, Brian,**
Charles [AU/AU]; 12 Amanda Avenue, Corio, VIC 3214
(AU). **FUNG, Hugh, Yean** [AU/AU]; 7 Correa Close,
Wantirna South, VIC 3152 (AU).(74) Agents: **PRYOR, Geoffrey, Charles et al.;** Davies Col-
lison Cave, 1 Little Collins Street, Melbourne, VIC 3000
(AU).(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ,
DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,

[Continued on next page]

(54) Title: TAP



(57) Abstract: A tap (4) including a tap body (6) within which is located a valve (14), an operating handle (12) mounted on the body and coupled to the valve, a security button (42) which is interlocked with the handle and/or valve, the arrangement being such that the valve can only be opened after activation of the security button.

WO 01/18439 A1

WO 01/18439 A1



NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

Published:

— With international search report.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU00/01079

A. CLASSIFICATION OF SUBJECT MATTER		
int. CL. ⁷ : F16K 35/02, 35/10, 11/18, 3/04		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) F16K 35/02, 35/10, 11/18, 3/04		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPAT: 1. (F16K 35/02 or 35/10 or 11/18) and (button or safety or child+) 2. (F16K 3/04 or 3/26) 3. (F16K 11/18)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 933573 A (GROHE) 4 August 1999 Entire document	1-22
X	DE 4432873 A (KSB AG) 21 March 1996 Entire document	1-22
X	US 5762317 A (FRAHM ET AL) 9 June 1998 Entire document	1-22
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input type="checkbox"/> See patent family annex		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 24 November 2000		Date of mailing of the international search report 1 - DEC 2000 1 - DEC 2000
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaaustralia.gov.au Facsimile No. (02) 6285 3929		Authorized officer CRAIG GLEGHORN Telephone No : (02) 6283 2064

INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU00/01079

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5108075 A (DOWNWARD ET AL) 28 April 1992 Entire document	23
X	US 5181580 A (BURG) 26 January 1993 Figures 12-16	23
X	US 4960154 A (DAGLIANTIS) 2 October 1990 Entire document	23
X	US 4709728 A (YING-CHUNG) 1 December 1987 Entire document	24
X	US 3938556 A (HICKS) 17 February 1976 Entire document	24
X	US 4457452 A (SYMMONS) 3 July 1984 Entire document	24

INTERNATIONAL SEARCH REPORT

International application No.
PCT/AU00/01079

Box I Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos :
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos :
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos :
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)

Box II Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. Claims 1-22 directed to a tap including a valve which can only be opened after activation of a security button.
2. Claim 23 directed to a dual valve having a pair of valve elements which are mounted for rotation relative to one another.
3. Claim 24 directed to a tap including a plunger which rotates with a handle about an axis but is unseated from a valve seat when the handle is rotated about an orthogonal axis.

1. ☒ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/AU00/01079

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Patent Family Member			
EP	933573	DE	19803524	JP	11269948	US	6035463
DE	4432873	ES	2126455 951750	FR	2724740	IT	MI
US	5762317	NONE					
US	5108075	DE	4213619	GB	2255155		
US	5181580	US	5273127				
US	4960154	EP	309443	CA	1293907	FI	892471
US	4709728	NONE					
US	3938556	NONE					
US	4457452	NONE					
END OF ANNEX							

14

PATENT COOPERATION TREATY
PCT
INTERNATIONAL PRELIMINARY EXAMINATION REPORT

REC'D 29 AUG 2001

WIPO

PCT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2327000	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416).
International Application No. PCT/AU00/01079	International Filing Date (day/month/year) 8 September 2000	Priority Date (day/month/year) 8 September 1999
International Patent Classification (IPC) or national classification and IPC Int. Cl. ⁷ F16K 35/02, 35/10, 11/18, 3/04		
Applicant AUSTRALIAN DYNAMIC PRODUCTS PTY. LTD. et al		

1.	This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.																								
2.	This REPORT consists of a total of 5 sheets, including this cover sheet. <input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of sheet(s).																								
3.	This report contains indications relating to the following items: <table border="0"><tr><td>I</td><td><input checked="" type="checkbox"/></td><td>Basis of the report</td></tr><tr><td>II</td><td><input type="checkbox"/></td><td>Priority</td></tr><tr><td>III</td><td><input type="checkbox"/></td><td>Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</td></tr><tr><td>IV</td><td><input checked="" type="checkbox"/></td><td>Lack of unity of invention</td></tr><tr><td>V</td><td><input checked="" type="checkbox"/></td><td>Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</td></tr><tr><td>VI</td><td><input type="checkbox"/></td><td>Certain documents cited</td></tr><tr><td>VII</td><td><input type="checkbox"/></td><td>Certain defects in the international application</td></tr><tr><td>VIII</td><td><input type="checkbox"/></td><td>Certain observations on the international application</td></tr></table>	I	<input checked="" type="checkbox"/>	Basis of the report	II	<input type="checkbox"/>	Priority	III	<input type="checkbox"/>	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	IV	<input checked="" type="checkbox"/>	Lack of unity of invention	V	<input checked="" type="checkbox"/>	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	VI	<input type="checkbox"/>	Certain documents cited	VII	<input type="checkbox"/>	Certain defects in the international application	VIII	<input type="checkbox"/>	Certain observations on the international application
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Date of submission of the demand 30 March 2001	Date of completion of the report 20 August 2001
Name and mailing address of the IPEA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaaustralia.gov.au Facsimile No. (02) 6285 3929	Authorized Officer VENKAT IYER Telephone No. (02) 6283 2144

I. Basis of the report**1. With regard to the elements of the international application:***

- ☒ the international application as originally filed.
- ☐ the description, pages , as originally filed,
 pages , filed with the demand,
 pages , received on with the letter of
- ☐ the claims, pages , as originally filed,
 pages , as amended (together with any statement) under Article 19,
 pages , filed with the demand,
 pages , received on with the letter of
- ☐ the drawings, pages , as originally filed,
 pages , filed with the demand,
 pages , received on with the letter of
- ☐ the sequence listing part of the description:
 pages , as originally filed
 pages , filed with the demand
 pages , received on with the letter of

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages
- ☐ the claims, Nos.
- ☐ the drawings, sheets/fig.

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report

IV. Lack of unity of invention

1. In response to the invitation to restrict or pay additional fees the applicant has:

- ☐ restricted the claims.
- ☐ paid additional fees.
- ☐ paid additional fees under protest.
- ☐ neither restricted nor paid additional fees.

2. ☒ This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.

3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is

- ☐ complied with.
- ☒ not complied with for the following reasons:

1. Claims 1 - 22 are directed to a tap including a valve which can be opened only after activating a security button.
2. Claim 23 is directed to a dual valve having a pair of valve elements which are mounted for rotation relative to one another.
3. Claim 24 directed to a tap including a plunger which rotates with a handle about an axis but is unseated from a valve seat when the handle is rotated about an orthogonal axis.

4. Consequently, the following parts of the international application were the subject of international preliminary examination in establishing this report:

- ☒ all parts.
- ☐ the parts relating to claims Nos.

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims 3 - 22	YES
	Claims 1, 2, 23, 24	NO
Inventive step (IS)	Claims 3 - 22	YES
	Claims 1, 2, 23, 24	NO
Industrial applicability (IA)	Claims 1 - 24	YES
	Claims	NO

2. Citations and explanations (Rule 70.7)

The following documents are considered to be particularly relevant for the purposes of this international preliminary examination report:

D1 EP 933573	D4 US 4960154	D7 US 3938556
D2 US 5762317	D5 US 5108075	D8 US 4709728
D3 DE 4432873	D6 US 5181580	D9 US 4457452

NOVELTY(N)

Claims 1 and 2:

D1 discloses a tap including an operating handle 21 and a security button 5 which must be pushed down before the user can move the handle to open the valve and feed water to the sprayer output 104. The handle 21 is capable of biaxial rotation and is also provided with a part spherical bearing surface arm 31 with a complementary bearing surface on the body of the tap 12. See figures 10 and 11.

D2 discloses a tap including a security button 16, which must be moved in order to allow the actuator cap 14 to actuate the valve 12.

Similarly D3 discloses a tap with a button/lever 4 which must be raised to allow the arm 2 to actuate the valve.

Claim 23:

D5 discloses a valve having a pair of valve elements 50 and 52 mounted for rotation relative to one another. The first valve member 50 has a through inlet and outlet 80, the other valve element 52 includes a recess 68, the arrangement being such that when the valve element 52 is rotated the recess allows fluid flow.

Similarly for D6 (see figures 12 - 16)

Claim 24:

D8 discloses a tap having a handle 24 with a plunger 23. The handle can be pressed down such that the plunger 23 together with a valve 232 is lowered. Resulting in the opening of the valve port 223. Furthermore, the handle is mounted for biaxial rotation. See figs 6, 7 and column 6 lines 31 - 38 and column 7 lines 3 - 15.

Similarly for D7 (col 3 lines 4 -13) and D9 (col 8 lines 11 - 20)

(continued in supplemental sheet)

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of Box V**INVENTIVE STEP(IS)**Claims 1, 2, 23, 24 : as above, also

D4 discloses a dual valve comprising a pair of valve elements 3 and 4 which slide relative to each other. The first valve member 3 includes an inlet 8, 9 and an outlet 13. The second valve member 4 has a recess 12 which is able to overlie both ports to allow fluid flow. See figure 4. The only difference between the invention and D4 is that the valve elements rotate relative to one another as opposed to sliding relative to one another in the citation. This difference amounts to a mere workshop variation, consequently claim 23 lacks an inventive step.

Claims 3 - 22:

These claims are considered to be novel and to involve an inventive step as the specific arrangement of the tap with the fluid lines is neither suggested nor disclosed in the prior art.

INDUSTRIAL APPLICABILITY(IA)

Claims 1 - 24 are industrially applicable